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The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application:

## Listing of The Claims:

1. (Original) An ultrasonic medical device comprising:

an ultrasonic probe comprising a proximal end, a distal end and a longitudinal axis therebetween;

a transducer creating a torsional vibration of the ultrasonic probe;

a coupling engaging the proximal end of the ultrasonic probe to a distal end of the transducer; and

an ultrasonic energy source engaged to the transducer that produces an ultrasonic energy.

- 2. (Original) The ultrasonic medical device of claim 1 wherein the torsional vibration of the ultrasonic probe causes a rotation and counterrotation along the longitudinal axis of the ultrasonic probe.
- 3. (Original) The ultrasonic medical device of claim 1 wherein the torsional vibration of the ultrasonic probe is propagated in a forward direction and a reverse direction about a plurality of torsional nodes along a portion of the longitudinal axis of the ultrasonic probe.
- 4. (Original) The ultrasonic medical device of claim 1 wherein a portion of the longitudinal axis of the ultrasonic probe comprises a radially asymmetric cross section.
- 5. (Original) The ultrasonic medical device of claim 4 wherein cavitation occurs around the portion of the longitudinal axis of the ultrasonic probe comprising the radially asymmetric cross section to ablate a biological material.

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6. (Original) The ultrasonic medical device of claim 1 wherein the torsional vibration of the ultrasonic probe produces a plurality of torsional nodes and a plurality of torsional anti-nodes along a portion of the longitudinal axis of the ultrasonic probe.

- 7. (Original) The ultrasonic medical device of claim 1 wherein a length of the longitudinal axis of the ultrasonic probe comprises an approximately rectangular shaped cross section.
- 8. (Original) The ultrasonic medical device of claim 1 wherein a length of the longitudinal axis of the ultrasonic probe comprises a spline shape.
- 9. (Original) The ultrasonic medical device of claim 1 wherein a plurality of projections extend from an outer surface along a length of the ultrasonic probe.
- 10. (Original) The ultrasonic medical device of claim 1 wherein a length of the longitudinal axis of the ultrasonic probe has a cross sectional shape selected from the group consisting of elliptical, star shaped, rectangular, oval, triangular, trapezoidal, circular with a flat spot and square.
- 11. (Original) The ultrasonic medical device of claim 1 wherein the torsional vibration generates acoustic energy in a medium surrounding the ultrasonic probe.
- 12. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic energy source delivers ultrasonic energy in a frequency range from about 10 kHz to about 100 kHz.
- 13. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic energy source provides an electrical power to the transducer at a resonant frequency of the transducer by finding the resonant frequency of the transducer.
- 14. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic probe supports the torsional vibration when flexed.
- 15. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic probe has a flexibility allowing the ultrasonic probe to be deflected and articulated.

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16. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic probe comprises a substantially uniform cross section from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.

- 17. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic probe comprises a varying cross section from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.
- 18. (Original) The ultrasonic medical device of claim 1 wherein the ultrasonic probe is disposable.
- 19. (Original) A medical device comprising:

an elongated probe comprising a proximal end, a distal end, and a longitudinal axis between the proximal end and the distal end wherein a portion of the longitudinal axis comprises a radially asymmetric cross section;

a transducer that converts electrical energy into mechanical energy, creating a torsional vibration along the longitudinal axis of the elongated probe;

a coupling engaging the proximal end of the elongated probe to a distal end of the transducer; and

an ultrasonic energy source engaged to the transducer that provides the electrical energy to the transducer,

wherein the torsional vibration along the elongated probe produces a plurality of torsional nodes and a plurality of torsional anti-nodes along a portion of the longitudinal axis of the elongated probe.

20. (Original) The medical device of claim 19 wherein the torsional vibration of the elongated probe produces a rotation and a counterrotation along the longitudinal axis of the elongated probe.

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21. (Original) The medical device of claim 19 wherein the torsional vibration of the elongated probe is propagated in a forward direction and a reverse direction about the plurality of torsional nodes of the elongated probe.

- 22. (Original) The medical device of claim 19 wherein the torsional vibration generates acoustic energy in a medium surrounding the elongated probe.
- 23. (Original) The medical device of claim 19 wherein cavitation occurs over an active area of the elongated probe along the portion of the longitudinal axis comprising the radially asymmetric cross section.
- 24. (Original) The medical device of claim 19 wherein a length of the longitudinal axis of the elongated probe comprises a spline shape.
- 25. (Original) The medical device of claim 19 wherein a length of the longitudinal axis of the elongated probe has a cross sectional shape selected from the group consisting of elliptical, star shaped, rectangular, oval, triangular, trapezoidal, circular with a flat spot and square.
- 26. (Original) The medical device of claim 19 wherein a plurality of projections extend from an outer surface along a length of the elongated probe.
- 27. (Original) The medical device of claim 19 wherein the ultrasonic energy source delivers ultrasonic energy in a frequency range from about 10 kHz to about 100 kHz.
- 28. (Original) The medical device of claim 19 wherein the ultrasonic energy source provides an electrical power to the transducer at a resonant frequency of the transducer by finding the resonant frequency of the transducer.
- 29. (Original) The medical device of claim 19 wherein the elongated probe supports the torsional vibration when flexed.
- 30. (Original) The medical device of claim 19 wherein the elongated probe has a flexibility allowing the elongated probe to be deflected and articulated.

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31. (Original) The medical device of claim 19 wherein the elongated probe comprises a substantially uniform cross section from the proximal end of the elongated probe to the distal end of the elongated probe.

- 32. (Original) The medical device of claim 19 wherein the elongated probe comprises a varying cross section from the proximal end of the elongated probe to the distal end of the elongated probe.
- 33. (Original) The medical device of claim 19 wherein the elongated probe has an approximately circular cross section.
- 34. (Original) A method of treating a biological material in a body with an ultrasonic medical device comprising:

providing the ultrasonic medical device comprising an ultrasonic probe having a proximal end, a distal end and a longitudinal axis therebetween wherein a portion of the longitudinal axis comprises a radially asymmetric cross section;

moving the ultrasonic probe to a treatment site of the biological material to place the ultrasonic probe in communication with the biological material; and

activating an ultrasonic energy source engaged to the ultrasonic probe to produce an ultrasonic energy that is converted into a torsional vibration of the ultrasonic probe.

- 35. (Original) The method of claim 34 further comprising creating the torsional vibration along the longitudinal axis of the ultrasonic probe with the ultrasonic energy source engaging a proximal end of a transducer and the ultrasonic probe engaging a distal end of the transducer.
- 36. (Original) The method of claim 34 further comprising generating acoustic energy in a medium surrounding the ultrasonic probe through the torsional vibration of the ultrasonic probe.

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- 37. (Original) The method of claim 34 further comprising producing a plurality of torsional nodes and a plurality of torsional anti-nodes along a portion of the longitudinal axis of the ultrasonic probe by the torsional vibration of the ultrasonic probe.
- 38. (Original) The method of claim 34 wherein cavitation occurs around an active area of the ultrasonic probe comprising the portion of the longitudinal axis having the radially asymmetric cross section.
- 39. (Original) The method of claim 34 wherein a length of the longitudinal axis of the ultrasonic probe comprises a spline shape.
- 40. (Original) The method of claim 34 wherein a length of the longitudinal axis of the ultrasonic probe has a cross sectional shape selected from the group consisting of elliptical, star shaped, rectangular, oval, triangular, trapezoidal, circular with a flat spot and square.
- 41. (Original) The method of claim 34 wherein a plurality of projections extend from an outer surface along a length of the ultrasonic probe.
- 42. (Original) The method of claim 34 further comprising producing a rotation and counterrotation along the longitudinal axis of the ultrasonic probe by the torsional vibration of the ultrasonic probe.
- 43. (Original) The method of claim 34 further comprising projecting the torsional motion of the ultrasonic probe in a forward direction and a reverse direction about a plurality of torsional nodes of the ultrasonic probe.
- 44. (Original) The method of claim 34 further comprising sweeping the ultrasonic probe along the treatment site of the biological material.
- 45. (Original) The method of claim 34 further comprising moving the ultrasonic probe back and forth along the treatment site of the biological material.
- 46. (Original) The method of claim 34 further comprising rotating the ultrasonic probe along the treatment site of the biological material.

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47. (Original) The method of claim 34 further comprising delivering ultrasonic energy in a frequency range from about 10 kHz to about 100 kHz by the ultrasonic energy source.

- 48. (Original) The method of claim 34 further comprising providing an electrical power to a transducer at a resonant frequency of the transducer of the ultrasonic medical device by the ultrasonic energy source determining the resonant frequency of the transducer.
- 49. (Original) The method of claim 34 further comprising providing the ultrasonic probe having a flexibility allowing the ultrasonic probe to be deflected and articulated.
- 50. (Original) The method of claim 34 further comprising providing the ultrasonic probe having a flexibility to support the torsional vibration when flexed.
- 51. (Original) The method of claim 34 further comprising providing the ultrasonic probe having a substantially uniform cross section from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.
- 52. (Original) The method of claim 34 further comprising providing the ultrasonic probe having a varying cross section from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.
- 53. (Original) A method of removing a biological material in a body comprising:

providing an ultrasonic medical device comprising an ultrasonic probe having a proximal end, a distal end that terminates in a probe tip and a longitudinal axis between the proximal end and the distal end;

moving the ultrasonic probe in the body and placing the ultrasonic probe in communication with the biological material; and

activating an ultrasonic energy source of the ultrasonic medical device to produce an electric signal that drives a transducer of the ultrasonic medical device to produce a torsional vibration of the ultrasonic probe, wherein the torsional

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vibration of the ultrasonic probe produces a plurality of torsional nodes and a plurality of torsional anti-nodes along a portion of the longitudinal axis of the ultrasonic probe.

- 54. (Original) The method of claim 53 wherein a portion of the longitudinal axis of the ultrasonic probe has a radially asymmetric cross section.
- 55. (Original) The method of claim 53 wherein the plurality of torsional anti-nodes are points of a maximum torsional vibration.
- 56. (Original) The method of claim 53 further comprising producing a rotation and counterrotation along the longitudinal axis of the ultrasonic probe by the torsional vibration of the ultrasonic probe.
- 57. (Original) The method of claim 53 further comprising projecting the torsional vibration of the ultrasonic probe in a forward direction and a reverse direction about the plurality of torsional nodes of the ultrasonic probe.
- 58. (Currently Amended) The method of claim 60 53 wherein cavitation occurs along an active area of the ultrasonic probe along a portion of the longitudinal axis comprising a radially asymmetric cross section.
- 59. (Original) The method of claim 53 wherein cavitation occurs at the probe tip.
- 60. (Original) The method of claim 53 wherein a length of the longitudinal axis of the ultrasonic probe comprises a spline shape.
- 61. (Original) The method of claim 53 wherein a length of the longitudinal axis of the ultrasonic probe comprises a cross sectional shape selected from the group consisting of elliptical, star shaped, rectangular, oval, triangular, trapezoidal, circular with a flat spot and square.
- 62. (Original) The method of claim 53 further comprising delivering ultrasonic energy in a frequency range from about 10 kHz to about 100 kHz by the ultrasonic energy source.

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63. (Original) The method of claim 53 wherein the ultrasonic probe is for a single use on a single patient.

64. (Original) An ultrasonic probe comprising:

a proximal end;

a distal end that terminates in a probe tip; and

a longitudinal axis between the proximal end and the distal end, a portion of the longitudinal axis of the ultrasonic probe comprising a radially asymmetric cross section to support a torsional vibration.

- 65. (Original) The ultrasonic probe of claim 64 wherein the ultrasonic probe comprises a varying cross section from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.
- 66. (Original) The ultrasonic probe of claim 64 wherein a cross section of the proximal end of the ultrasonic probe is approximately circular.
- 67. (Original) The ultrasonic probe of claim 64 wherein the radially asymmetric cross section comprises a spline shape.
- 68. (Original) The ultrasonic probe of claim 64 wherein the radially asymmetric cross section has a cross sectional shape selected from the group consisting of elliptical, star shaped, rectangular, oval, triangular, trapezoidal, circular with a flat spot and square.
- 69. (Currently Amended) The ultrasonic probe of claim 71 64 wherein the ultrasonic probe comprises a varying diameter from the proximal end of the ultrasonic probe to the distal end of the ultrasonic probe.

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70. (Original) The ultrasonic probe of claim 64 wherein the ultrasonic probe has a flexibility allowing the ultrasonic probe to be deflected and articulated.

71. (Previously Added) The method of claim 53 wherein the plurality of torsional nodes are points of a minimum torsional vibration.